

What is Claimed Is:

1. An air conditioning unit disposed at a downstream air side of a blower unit for blowing air, the air conditioning unit comprising:

a case forming an air passage through which air flows;

a cooling heat exchanger for cooling air passing therethrough, said cooling heat exchanger being disposed within said case approximately horizontally to form a space under said cooling heat exchanger in said case, in such a manner that air from said blower unit is introduced into said cooling heat exchanger through said space from below upwardly; and

a drain pipe through which condensed water generated by said cooling heat exchanger is discharged to an outside of said case, said drain pipe being provided in said case at a position lower than a lower side surface of said cooling heat exchanger.

2. The air conditioning unit according to claim 1, wherein:

said cooling heat exchanger is slightly tilted relative to a horizontal surface;

and

said drain pipe is provided at a position under a tilted lower end of said cooling heat exchanger.

3. The air conditioning unit according to claim 1, wherein said drain pipe is provided at a most bottom position of said case.

4. The air conditioning unit according to claim 1, wherein said cooling heat exchanger includes a plurality of tubes disposed in parallel with each other,

through which a coolant medium flows, and a plurality of corrugated fins each of which is disposed between adjacent tubes.

5. The air conditioning unit according to claim 4, wherein said tubes are disposed to extend in a direction approximately parallel to an introduction direction of air being introduced into said space.

6. The air conditioning unit according to claim 1 wherein:
said cooling heat exchanger is tilted relative to a horizontal surface by a tilt angle; and
said tilt angle is in a range of 10° - 30°.

7. The air conditioning unit according to claim 1, further comprising:
a heating heat exchanger for heating air from said cooling heat exchanger,
wherein said heating heat exchanger is approximately horizontally disposed in said case at an upper side of said cooling heat exchanger.

8. The air conditioning unit according to claim 7, wherein:
said case is disposed in such a manner that air blown by said blower unit is introduced into a passenger compartment of a vehicle through said air passage; and
said case has, at a downstream air side of said heating heat exchanger, a first opening through which air is blown toward an upper side of said passenger compartment, and a second opening through which air is blown toward a lower side of said passenger compartment,

said air conditioning unit further comprising a mode switching member disposed at a downstream air side of the heating heat exchanger to selectively open and close said first opening and said second opening.

9. An air conditioning for a vehicle having a passenger compartment, the air conditioner comprising:

a blower unit for blowing air, said blower unit being disposed in the passenger compartment at a position offset from a center of an instrument panel in a vehicle width direction; and an air conditioning unit, for adjusting an air state to be blown into the passenger compartment, said air conditioning unit being disposed generally at the center of the instrument panel at a downstream air side of said blower unit, said air conditioning unit including:

a case forming an air passage through which air blown by said blower unit flows into the passenger compartment, said case having a first opening for blowing air toward an upper side of the passenger compartment, and a second opening for blowing air toward a lower side of the passenger compartment,

a cooling heat exchanger for cooling air, said cooling heat exchanger being disposed within said case approximately horizontally to form a space under said cooling heat exchanger in said case, in such a manner that air from said blower unit is introduced into said cooling heat exchanger through said space from below upwardly,

a heating heat exchanger for heating air from said cooling heat exchanger, said heating heat exchanger being disposed approximately horizontally at an upper side of said cooling heat exchanger to adjust temperature of air to be blown into said first opening and said second opening,

a mode switching member, disposed at a downstream air side of said heating heat exchanger, for selectively opening and closing first opening and said second opening, and

a drain pipe through which condensed water generated by said cooling heat exchanger is discharged to an outside of said case, said drain pipe being provided in said case at a position lower than a lower side surface of said cooling heat exchanger.

30153295_1.DOC